

Title (en)  
LIGHT BEAM STEERING WITH DEFORMABLE MEMBRANE DEVICE

Publication  
**EP 0550022 A3 19931103 (EN)**

Application  
**EP 92121936 A 19921223**

Priority  
US 81643491 A 19911231

Abstract (en)  
[origin: EP0550022A2] A deformable membrane type of spatial light modulator (10) may be modified and used with a lens (16) for beam steering applications. A reflective membrane (11) is deformed by one or more of a multiplicity of underlying address electrodes (14), such that it has a different center of curvature depending on which electrode is being energized. An incoming beam is incident on the membrane and reflected from it. A lens (16) collimates light reflected from the membrane so that a beam is reflected in a desired direction relative to the incoming beam. <IMAGE>

IPC 1-7  
**G02B 26/08**; G09F 9/37

IPC 8 full level  
**G02B 26/08** (2006.01)

CPC (source: EP US)  
**G02B 26/0825** (2013.01 - EP US); **G03H 2001/0434** (2013.01 - EP US); **G03H 2001/0439** (2013.01 - EP US)

Citation (search report)

- [A] US 4571603 A 19860218 - HORNBECK LARRY J [US], et al
- [A] EP 0046873 A1 19820310 - TEXAS INSTRUMENTS INC [US]
- [A] DE 4008394 A1 19910919 - TELEFUNKEN SYSTEMTECHNIK [DE]
- [AD] OPTICAL ENGINEERING. vol. 29, no. 11, November 1990, BELLINGHAM US pages 1392 - 1397 GOLTSOS ET AL 'Agile Beam Steering Using Binary Optics Microlens Arrays'

Cited by  
EP1026536A1; EP0710551A1; US5754219A; EP0769712A1; EP0599154A1; US8885272B2; US6470107B2; WO2009092000A3; WO2006027713A3; US8475061B2; WO2009092000A2

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